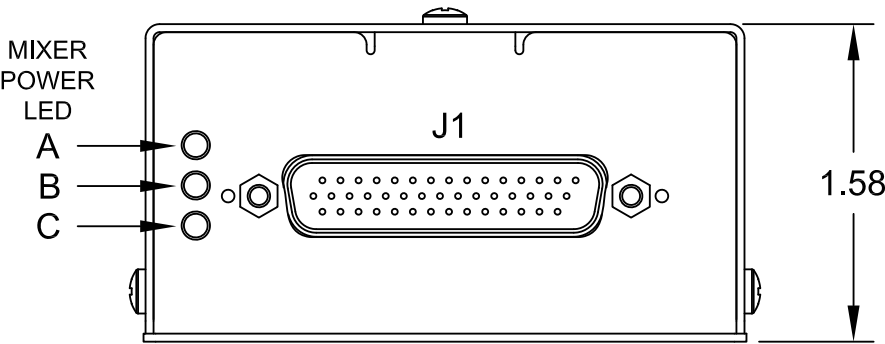
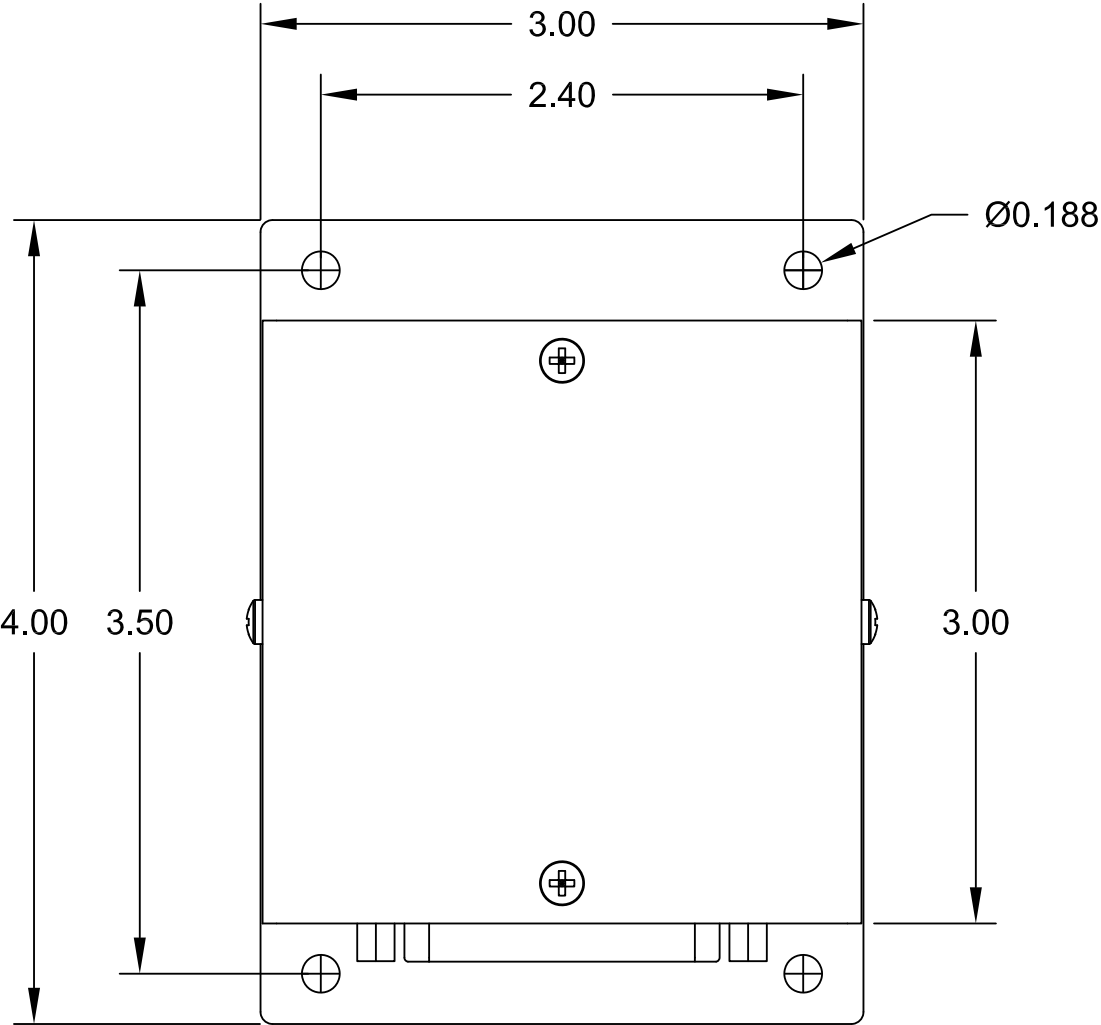


G13045 AUDIO MIXING AMPLIFIER
WEIGHT : 0.5 LBS
SIZE: 1.58 X 3.00 X 4.00

- Supply Voltage: 28V DC Nominal.
16-48V with mic bias.
14-48V without mic bias.
- Supply Current: 150mA Max per Mixer.
450mA Total. (@ 28V DC)
- Input Impedance: 600Ω (11kΩ with gnd/bias
jumper removed)
- Output Impedance: < 20Ω
- Output Signal: 5VRMS into 600Ω nominal.
Current limit 30mA.
- Mic Bias Selection: Jumper for each input: 600Ω
to ground/600Ω to bias
voltage/unterminated input
- Mic Bias: 16V DC through 600Ω
- Gain Range: 0dB to +20dB per input.
-30dB to 0dB per output.



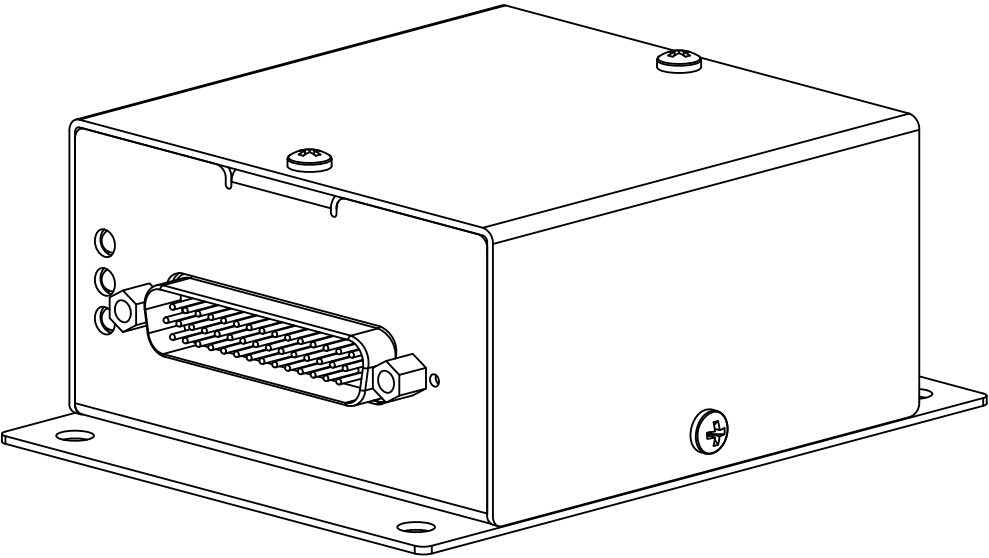
INSTALLATION:

- MOUNT TO AVIONICS SHELF OR OTHER
LOAD RATED STRUCTURE USING:
- (4) #8-32 SCREWS (AN525-832R7)
 - (4) WASHERS (NAS1149FN832P)
 - (4) LOCKNUTS (MS21042L08)

UNIT IS NOT ENVIRONMENTALLY SEALED
DO NOT MOUNT IN AREA EXPOSED TO
WEATHER.

WARNING: Mixer input low pins are connected to ground. Do not
connect balanced audio sources that do not support grounding of
audio low, such as speaker outputs on some stereo systems.

REVISION		DATE	APPROVAL
REV	DESCRIPTION		
A	Sht 2: Modified Pin Assignment layout for legibility.	11-3-09	GA




The G13045 AUDIO MIXING AMPLIFIER is designed for mixing aircraft audio signals, such as warning tones, navigational beacons, or CVR signals.

It has three separate mixing circuits, each combining up to four input signals to produce a single output signal. The output from each mixer can be connected to an input on the next to create a 10-channel mixer.

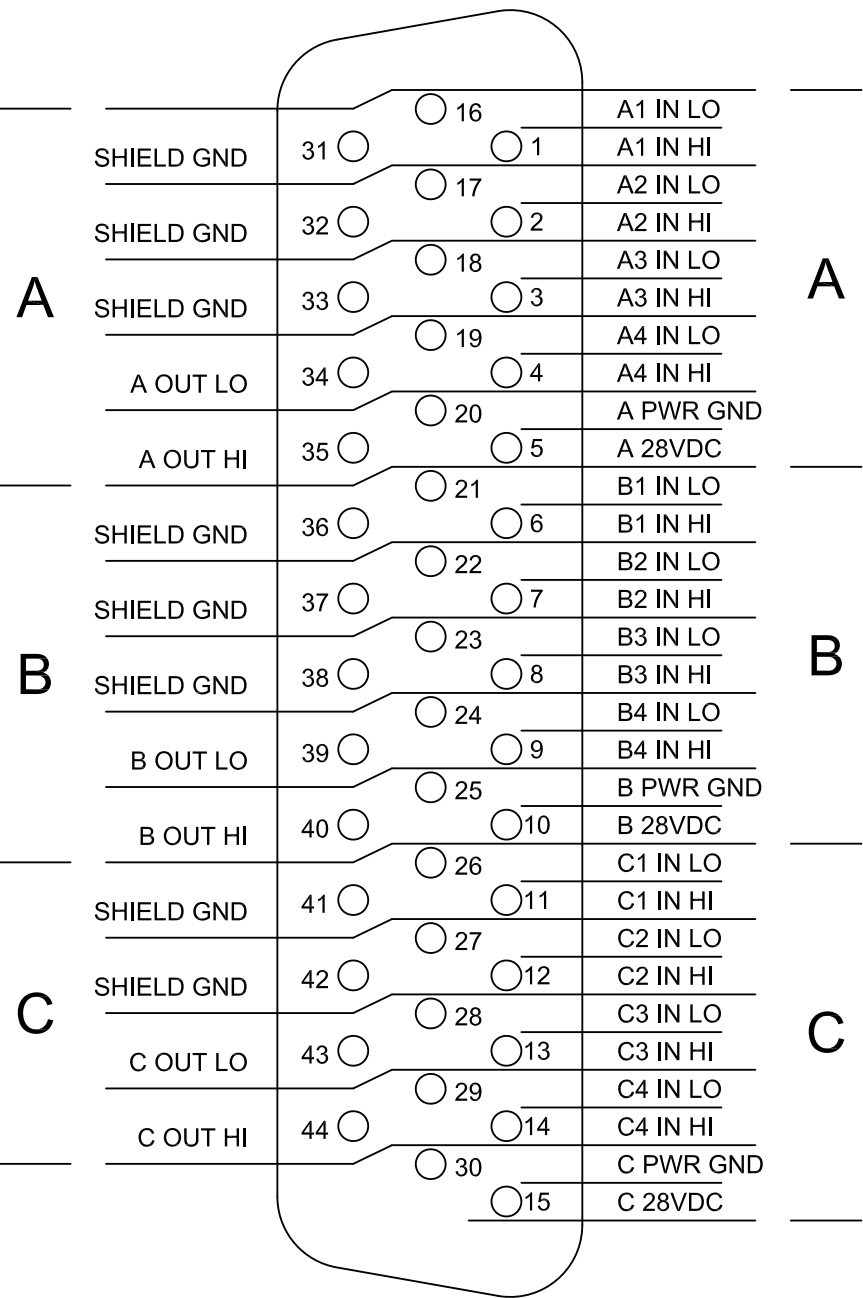
Each input has a selectable 600Ω resistor to ground or to a mic bias voltage, or can be set to unterminated input.

Each input has an adjustable gain from 0dB to 20dB, and the mixer output has an attenuation adjustment from -30dB to 0dB.

Each mixer circuit has a separate power supply and ground connection. All three mixers can be powered from the same supply by joining the three power pins.

 www.genevaaviation.com <small>THIS DOCUMENT INCLUDES INFORMATION PROPRIETARY TO GENEVA AVIATION AND SHALL NOT BE USED OR DUPLICATED BY ANYONE WITHOUT THE WRITTEN PERMISSION OF GENEVA AVIATION, INC.</small>	DRAWN	CLB	DATE	10/14/09	TITLE AUDIO MIXING AMPLIFIER INSTALLATION INSTRUCTIONS		
	CHECKED	GA	DATE	10/14/09			
	APPROVAL	CLB	DATE	10/14/09			
	PRO NO.	GA182	SHT.	1 OF 3	DWG NO.	G13046	REV.

EXTERNAL CONNECTOR
PIN ASSIGNMENT



P1

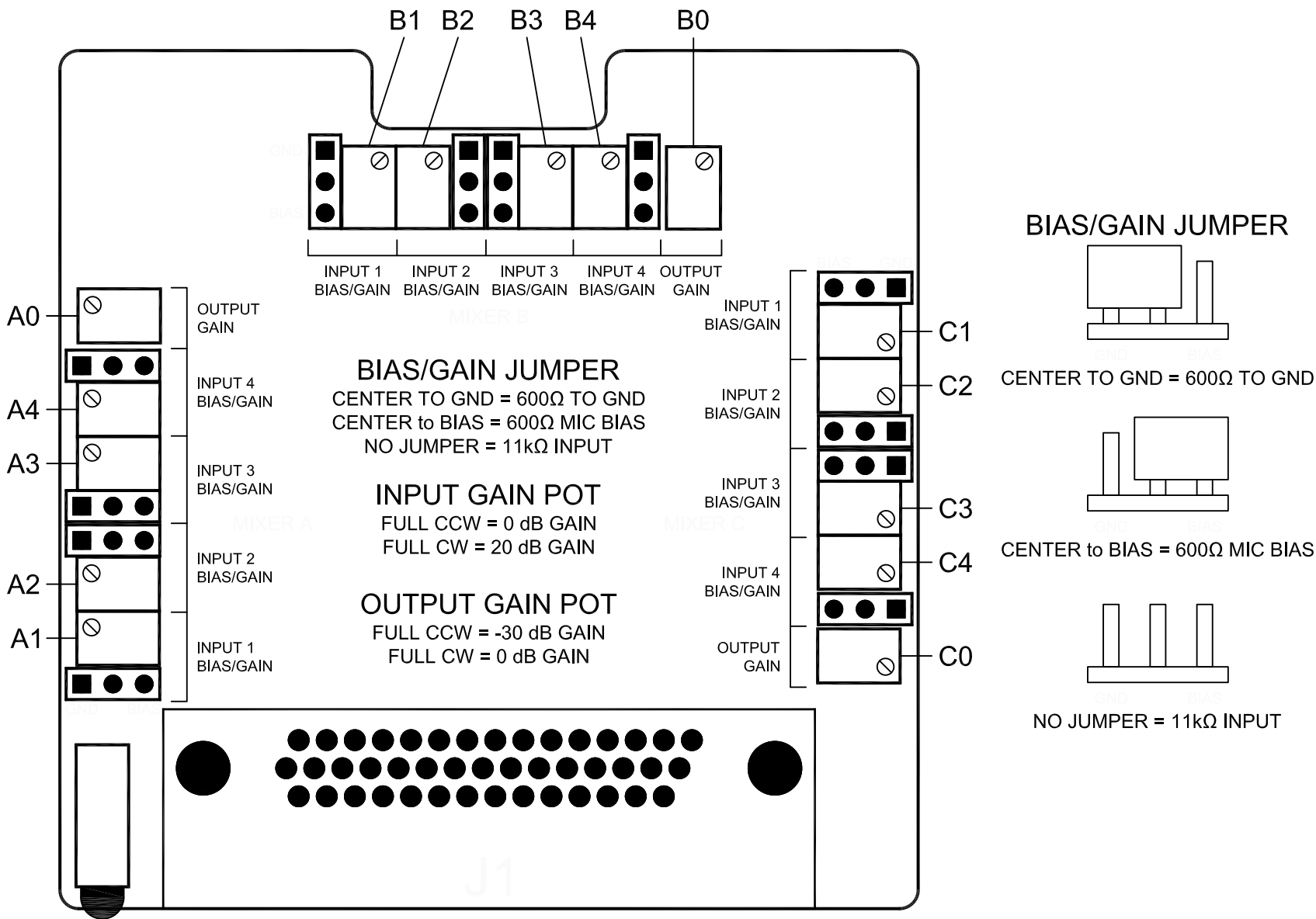
HD44F

Connector: CONEC p/n 164X11969X
Contacts: CONEC p/n 162A18419X
Backshell: Kobiconn p/n 156-3025-EX

Optional Connector:
Positronics p/n DD44S10GE0
Contacts: Positronics p/n FC8022D2-15
or M39029/57-354

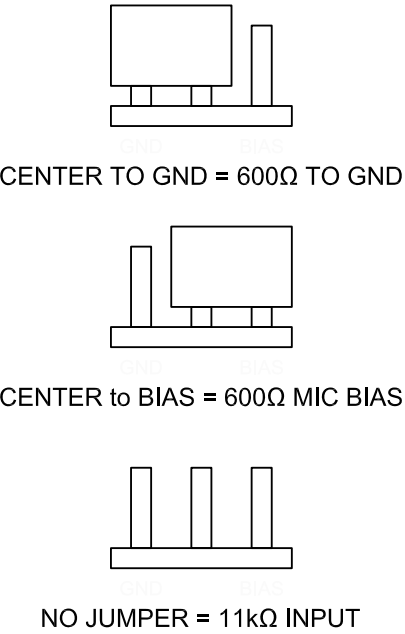
Optional: For installations with existing Positronics
slide lock connector (ref DD44S10GVL0)
Replace jackscrews on mixer case with
Positronics V50 Lock Clips D9/370000V50.

INTERNAL ADJUSTMENT LOCATIONS



POWER LED:
TOP - MIXER A
MIDDLE - MIXER B
BOTTOM - MIXER C

BIAS/GAIN JUMPER



WARNING: Mixer input low pins are connected to ground. Do not connect balanced audio sources that do not support grounding of audio low, such as speaker outputs on some stereo systems.

